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(54) Title: PROCESS FOR PREPARING SELECTIVELY CONDUCTIVE MATERIALS BY ELECTROLESS METAL DEPOSITION
AND PRODUCT MADE THEREFROM

(57) Abstract

There is provided a process for producing conductive areas through selected portions of the Z axis of a porous planar material. In the process, the planar material is sensitized to the reception of electroless metal with an electroless metal deposition solution. The planar material is provided throughout the selected Z axis areas with a metal salt composition which is exposed to radiant energy, such as light, electron beams, x-ray, and the like, so as to convert the metal cations to metal nuclei. The metal nuclei are then displaced with a more stable metal, such as palladium, and then the material is electrolessly plated. The metalized planar material is then imbibed with a resin at such a percentage so that adhesion is provided between two substrates without loss of conductivity in the Z axis.

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